

# Package ‘RLab4’

September 22, 2015

**Type** Package

**Title** Linear regression

**Version** 1.0

**Date** 2015-09-15

**Author** c(  
  person("Martina", "Sandberg", email = "marsa505@student.liu.se", role = "cre"),  
  person("Caroline", "Svahn", email = "carsv733@student.liu.se", role = "aut"))

**Maintainer** <carsv733@student.liu.se>

**Description** Linear regression and additional, related functions

**License** What license is it under?

**Suggests** knitr, testthat, ggplot2

**VignetteBuilder** knitr

**NeedsCompilation** no

## R topics documented:

---

RLab4-package

*Linear regression and theme*

---

### Description

Fitting linear models. Theme for LiU with ggplot2.

### Usage

```
linreg(formula, data)
```

### Details

Package: RLab4  
Type: Package  
Version: 1.0  
Date: 2015-09-15  
License: What license is it under?

**Author(s)**

Martina Sandberg <marsa505@student.liu.se> Caroline Svahn <carsv733@student.liu.se>

---

linreg

*Linear regression*

---

**Description**

Fitting linear models.

**Usage**

```
linreg(formula,data)
```

**Arguments**

formula	an argument of class "formula".
data	an optional data frame.

**Value**

linreg returns an object of class "linreg".

linreg contains the following components:

coef	a named vector of coefficients.
pred	a vector of the predicted values.
resid	a vector of the residuals.
summary	a list containing the coefficients with their standard error, t-value and p-value, the estimate of sigma and the degrees of freedom.
print	a vector of coefficients and coefficient names.
plot	a plot of residuals vs fitted and a plot of standardized residuals vs fitted.